

ABSTRACT

There is provided a gas detector capable of detecting hydrogen concentration and humidity independently in the environment containing both hydrogen and water vapor. The gas detector comprises a high-temp
5 exothermic detector unit (35a) and a low-temp exothermic detector unit (35b) provided with thermosensitive resistors of different self-heating temperatures. The gas detector converts gas-level outputs produced by the high-temp exothermic detector unit (35a) and the low-temp exothermic detector unit (35b) responsive to the hydrogen concentration and humidity
10 into electric signals, and outputs them after computing electrically levels of the hydrogen concentration and humidity contained in a gas introduced into the two detector units through a gas intake opening.